

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
Please do not report the images to the  
Image Problem Mailbox.

Figure 1

### Mouse KCC3

Full-length cDNA



RT-PCR cDNAs



KCC3a

KCC3b

### Human KCC3

Full-length cDNA



TIGR cDNA (EST)

5'-RACE cDNA



Muscle cDNA - KCC3a



RT-PCR cDNAs



KCC3b

### Mouse KCC4

Full-length cDNA



IMAGE cDNAs (ESTs)

313521

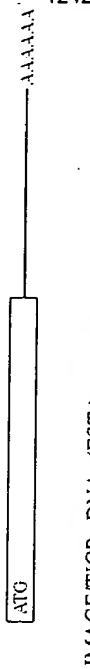
698105

RT-PCR cDNA

5'-RACE cDNAs

### Human KCC4

Full-length cDNA



IMAGE/TIGR cDNAs (ESTs)

RT-PCR cDNAs

22250, 51311

### Human KCC2

Full-length cDNA

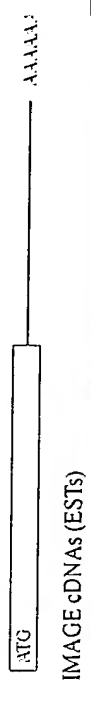


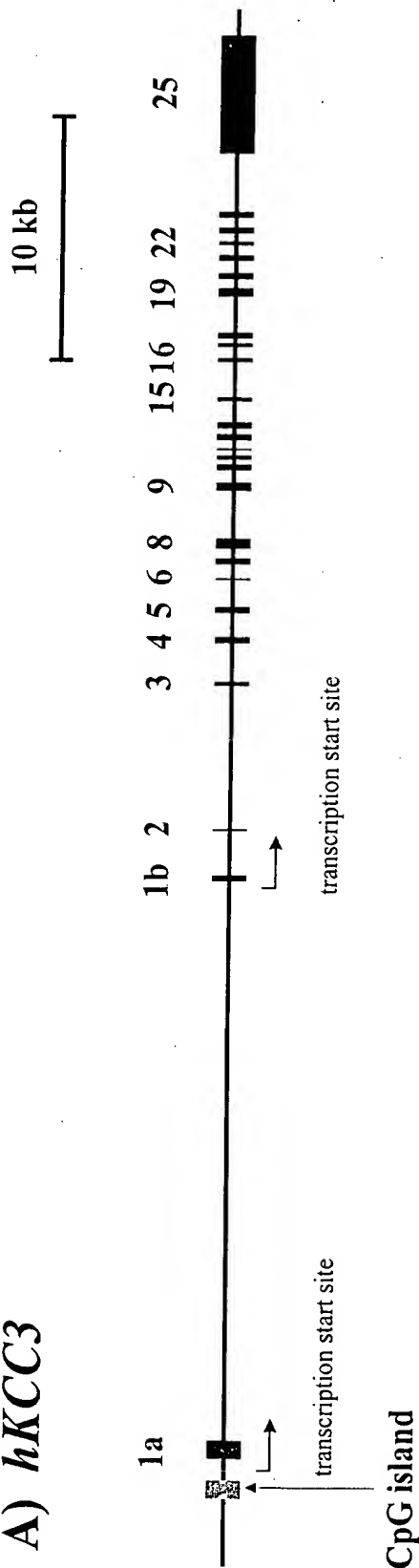
IMAGE cDNAs (ESTs)

RT-PCR cDNAs

362310

Figure 2

# A) *hKCC3*



# B) *hKCC4*

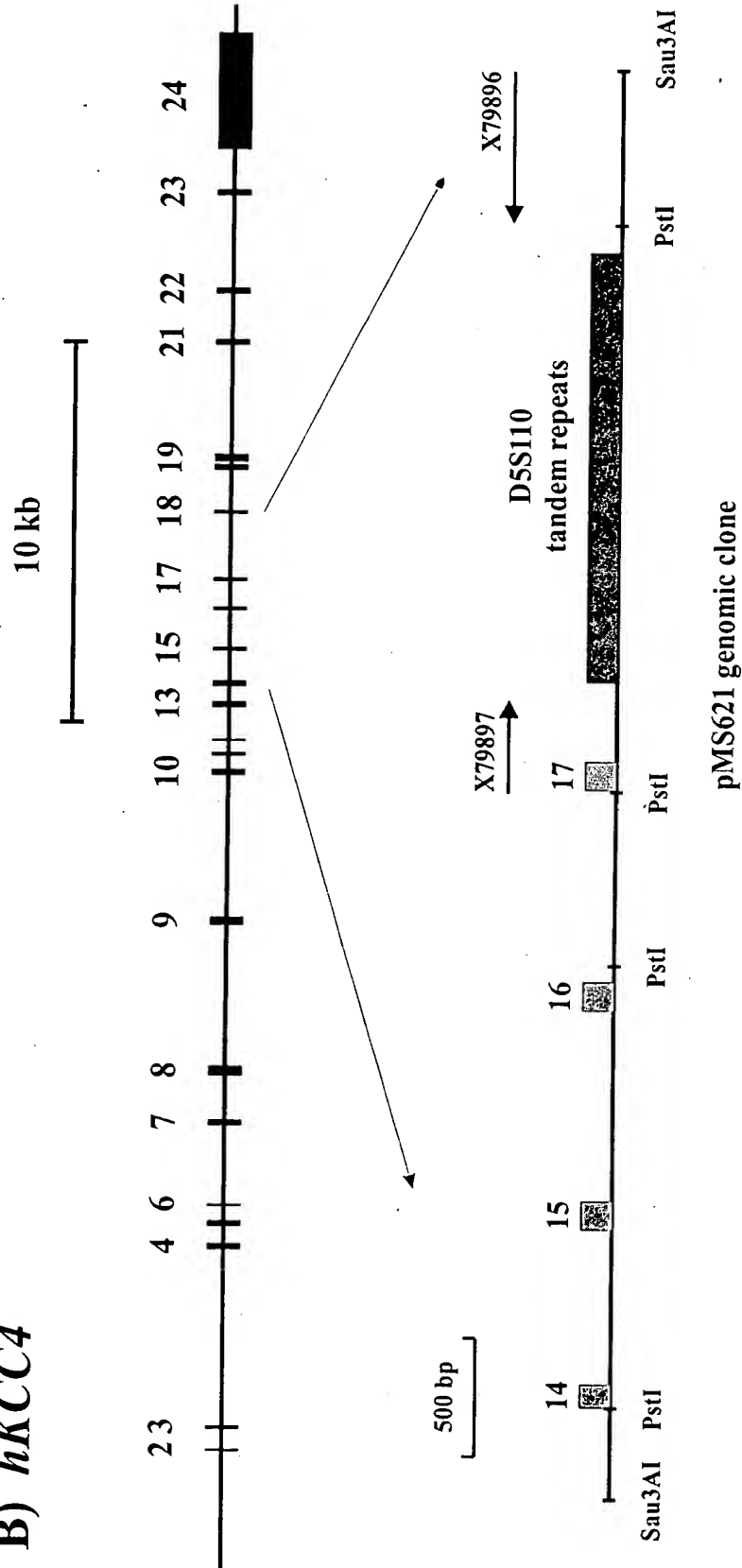
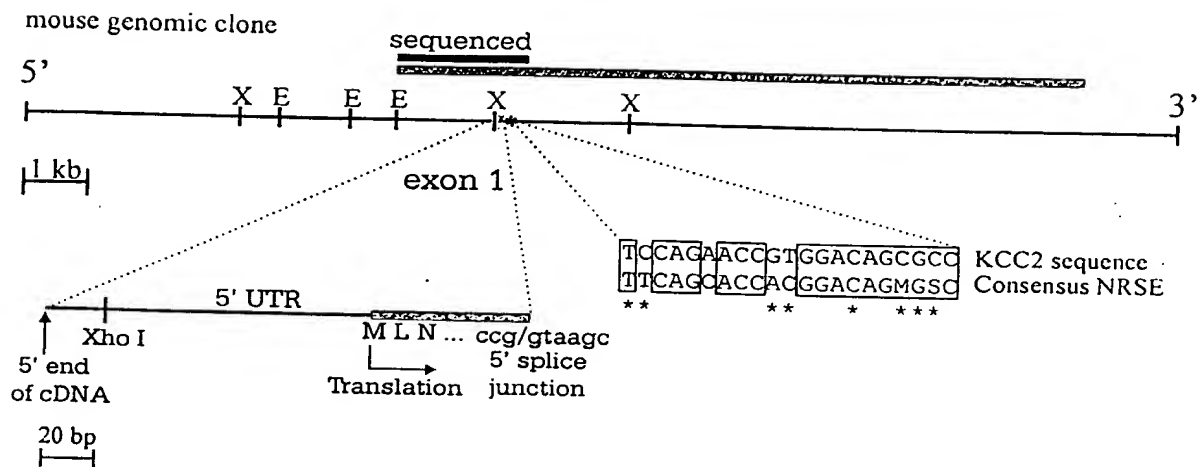
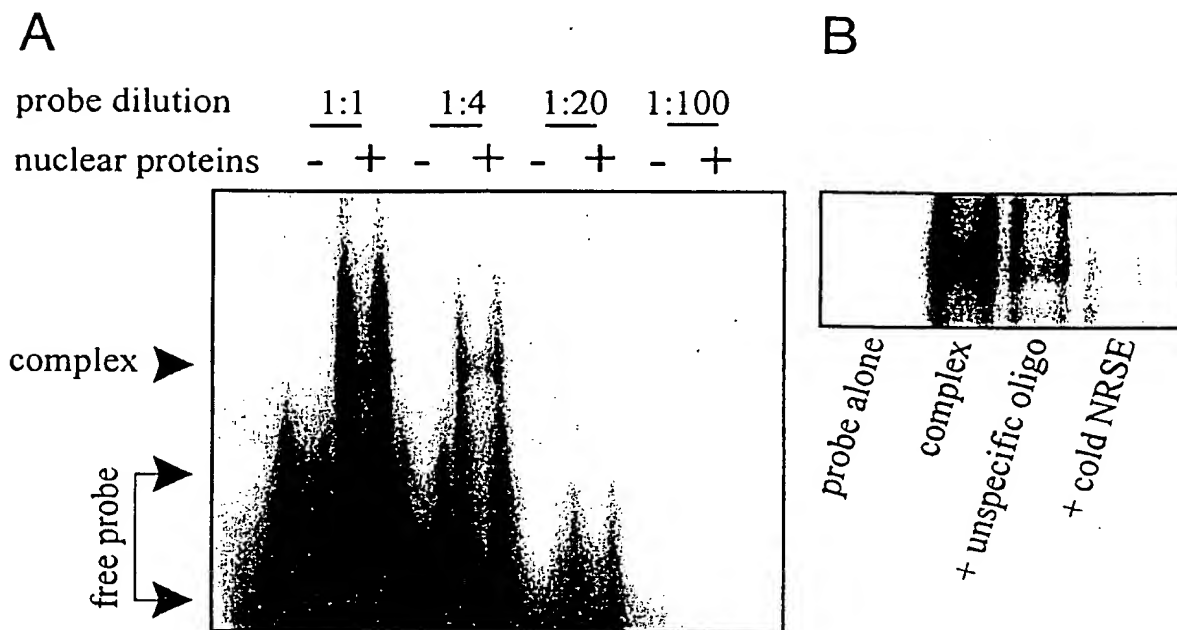


Figure 3



003597-041501

Figure 4



093597-041601

**Figure 5**

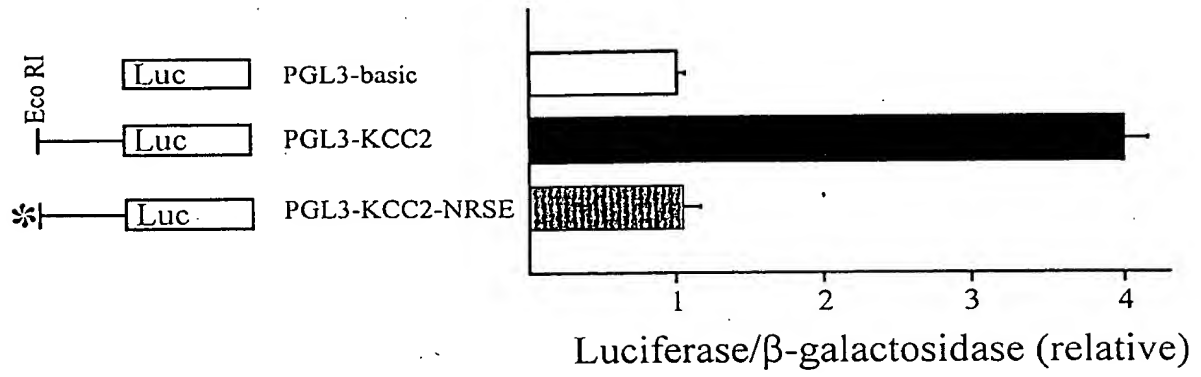
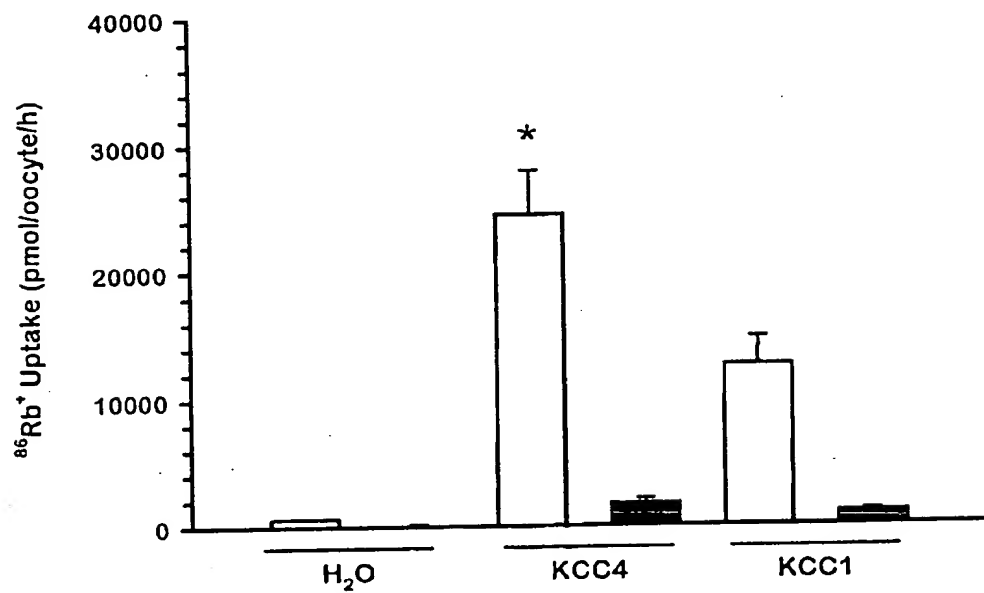
[illegible]

Figure 6



1242/26/2

Figure 7

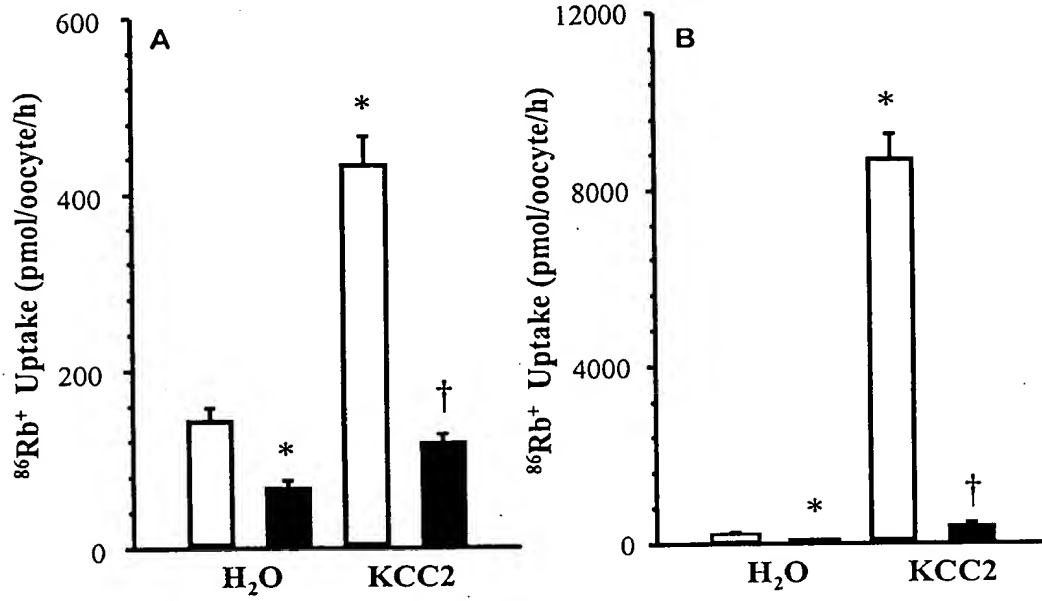
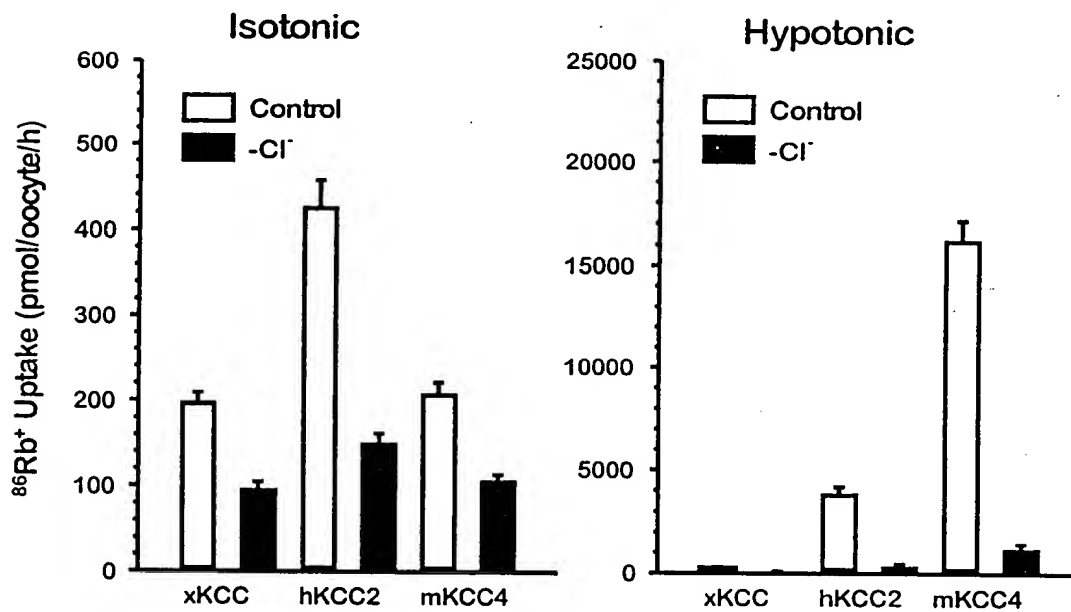




Figure 8



09940-9/658860

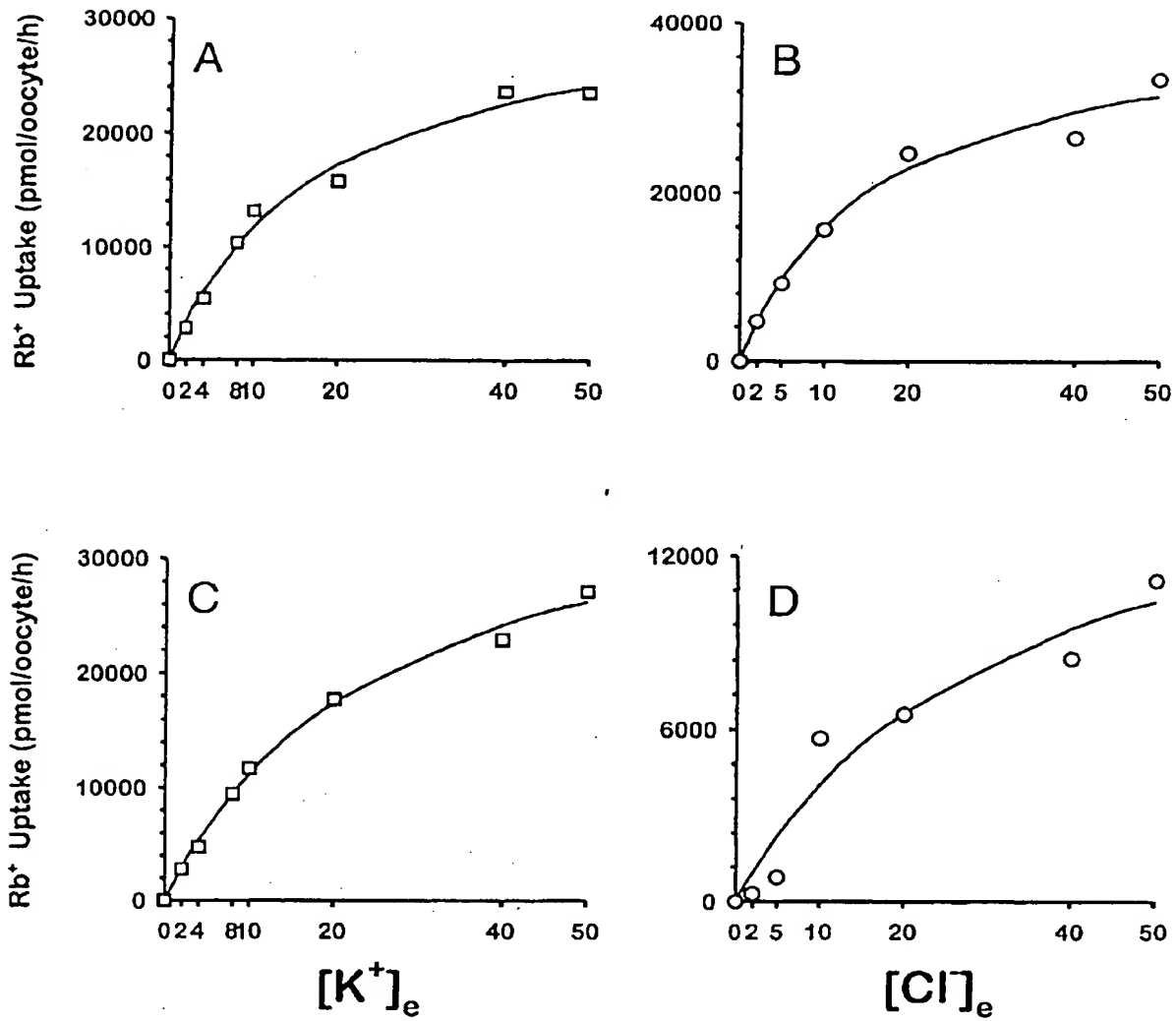
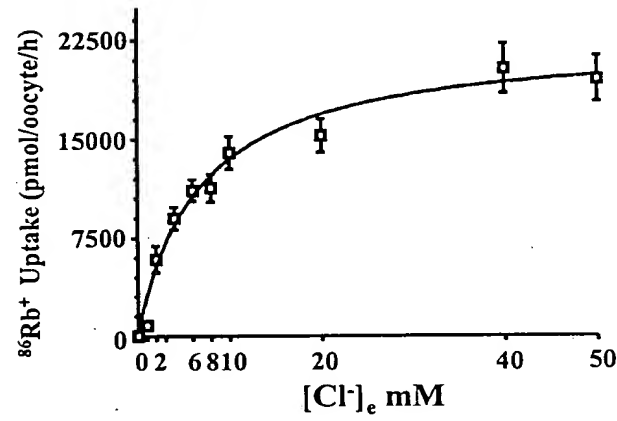
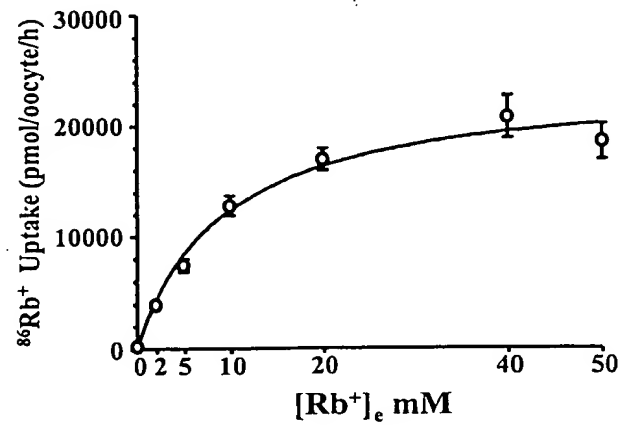


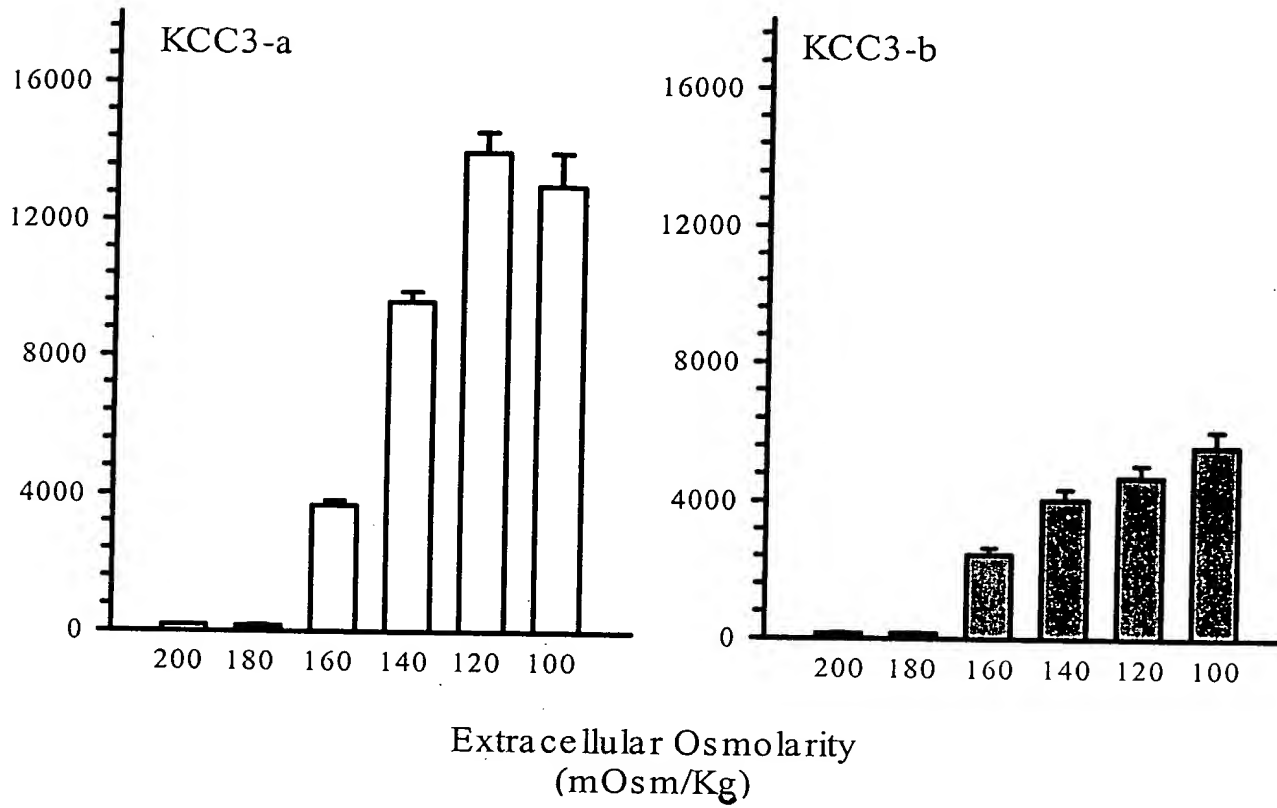
Figure 9

Figure 10



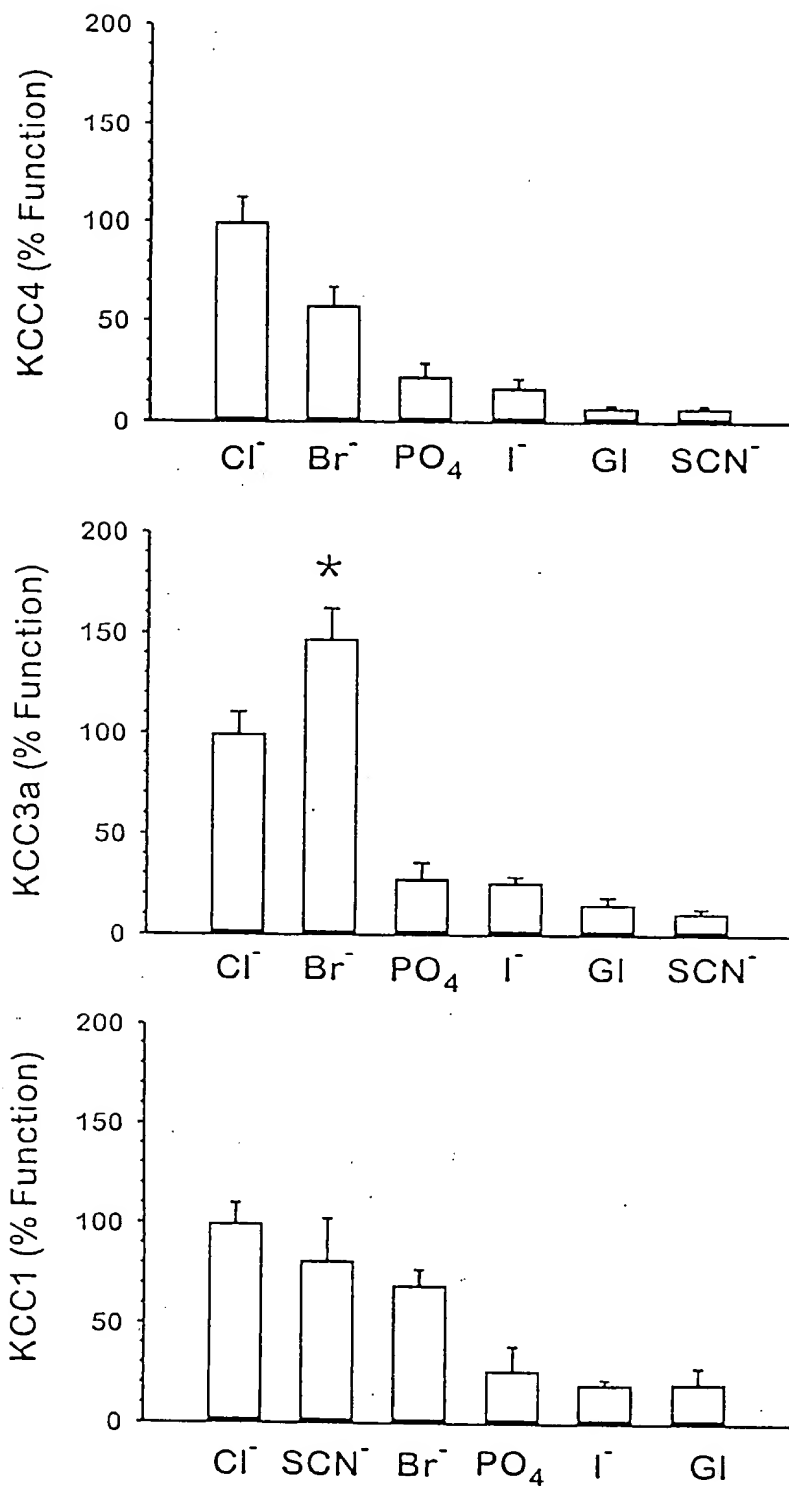
093597-0400

Figure 11



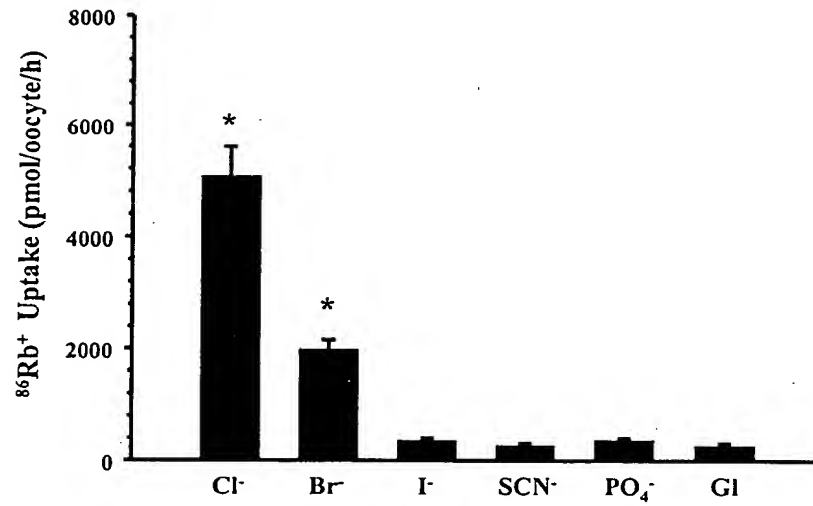
0035976-041601

Figure 12



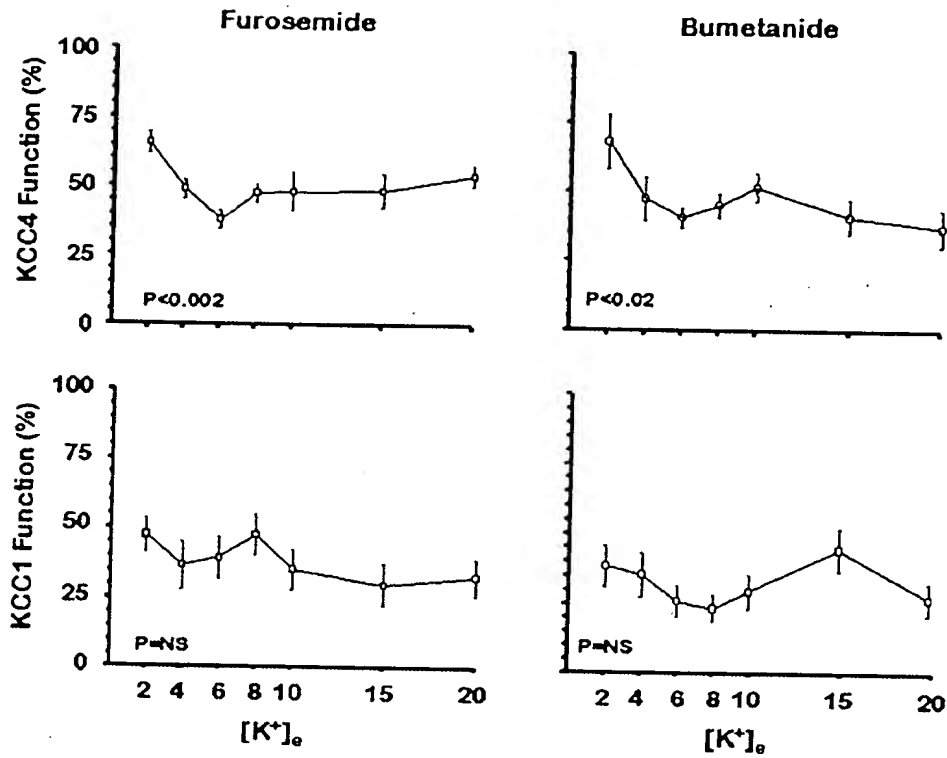
USPTO 265860

Figure 13



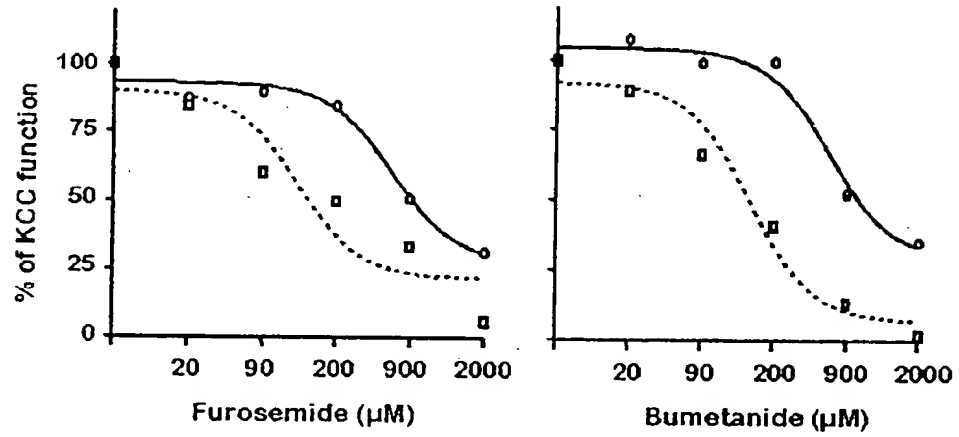
0959740 9/26/2000

Figure 14



FOI# 9165560

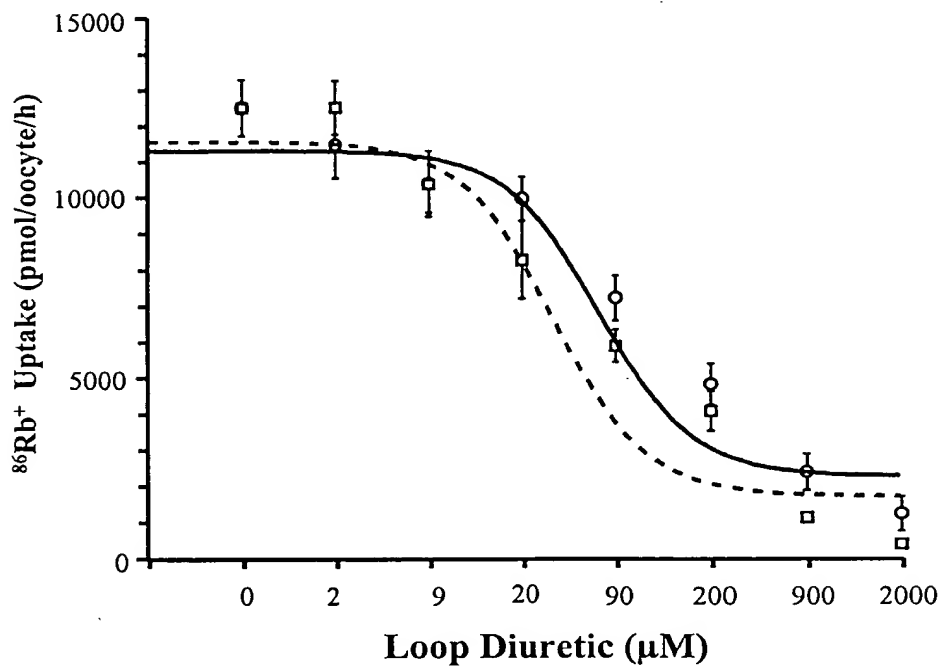
Figure 15



FOUO 2/6/96

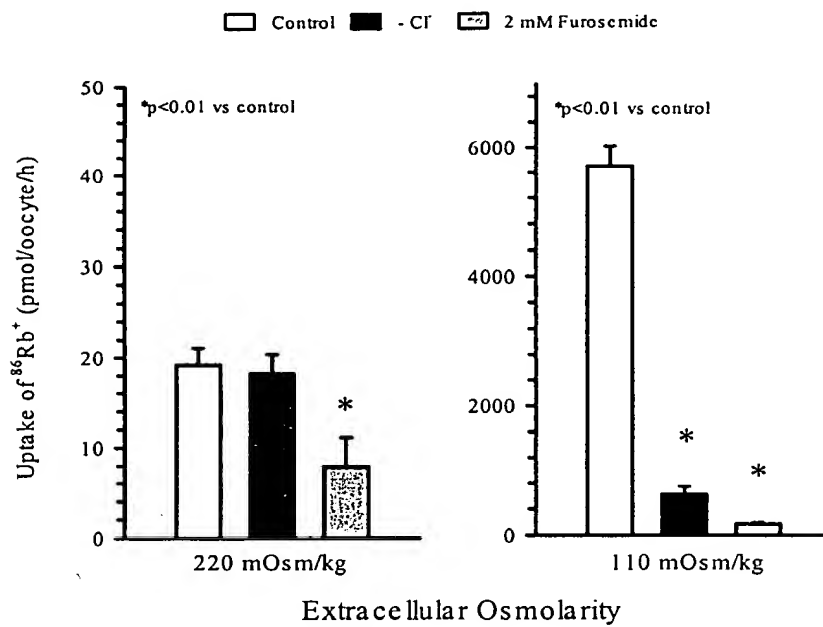


Figure 16



FOIA b 7 - DEXE860

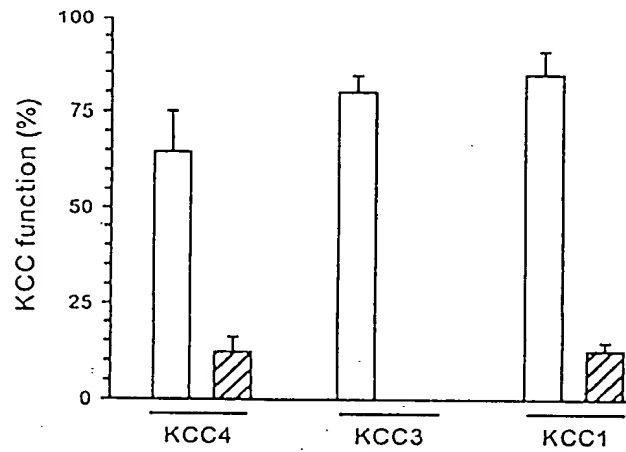
Figure 17



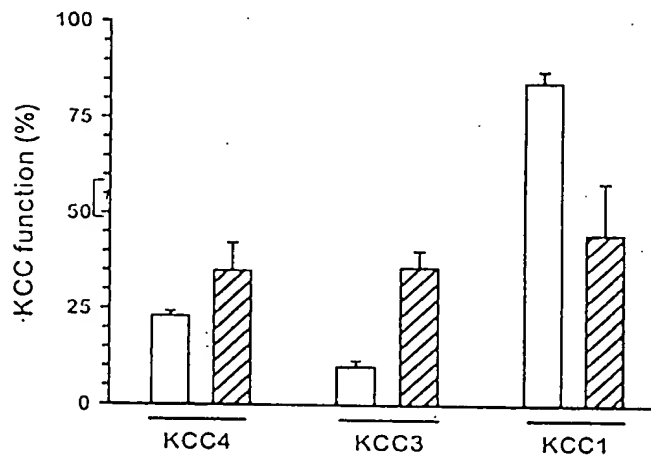
00340" 9455860

Figure 18

A) DIDS (100  $\mu$ M)



B) DIOA (100  $\mu$ M)



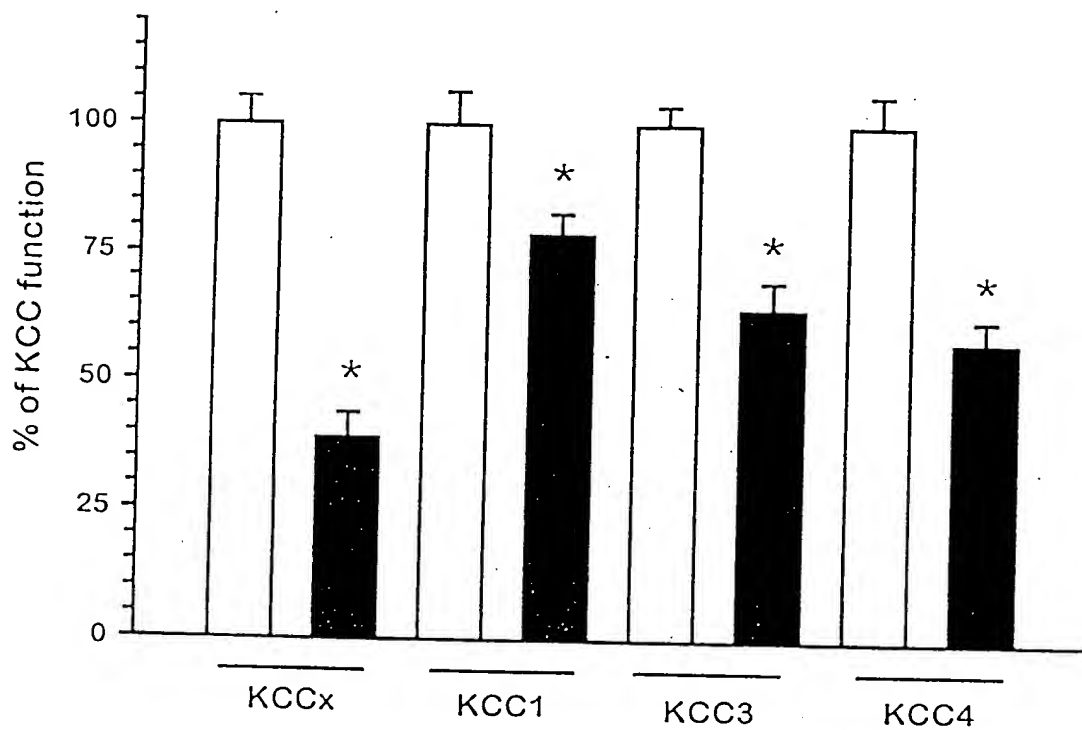
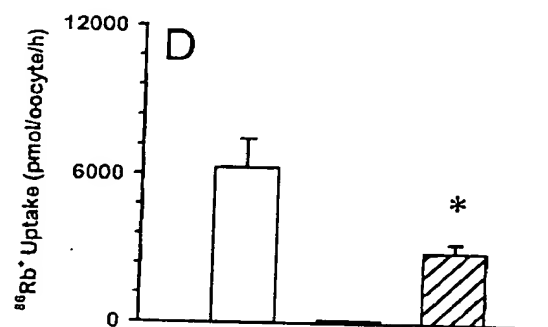
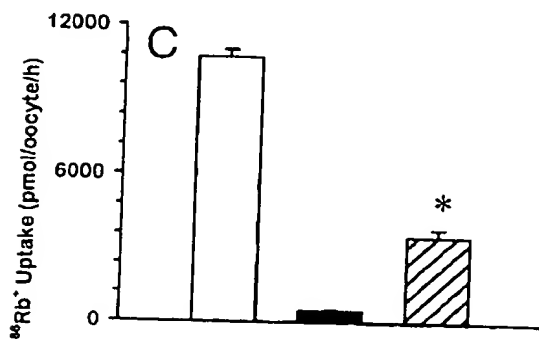
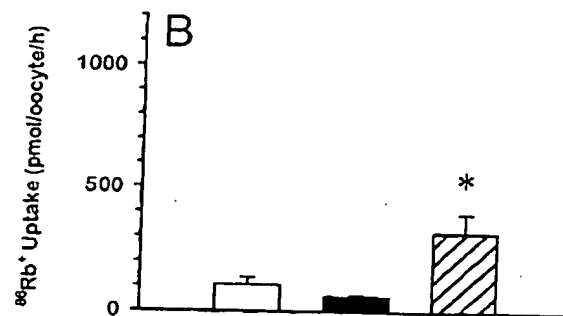
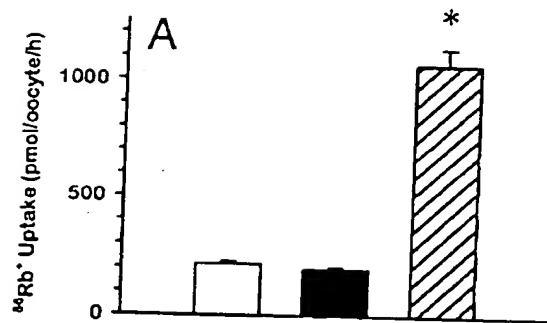


Figure 19



10340-9465660

Figure 21

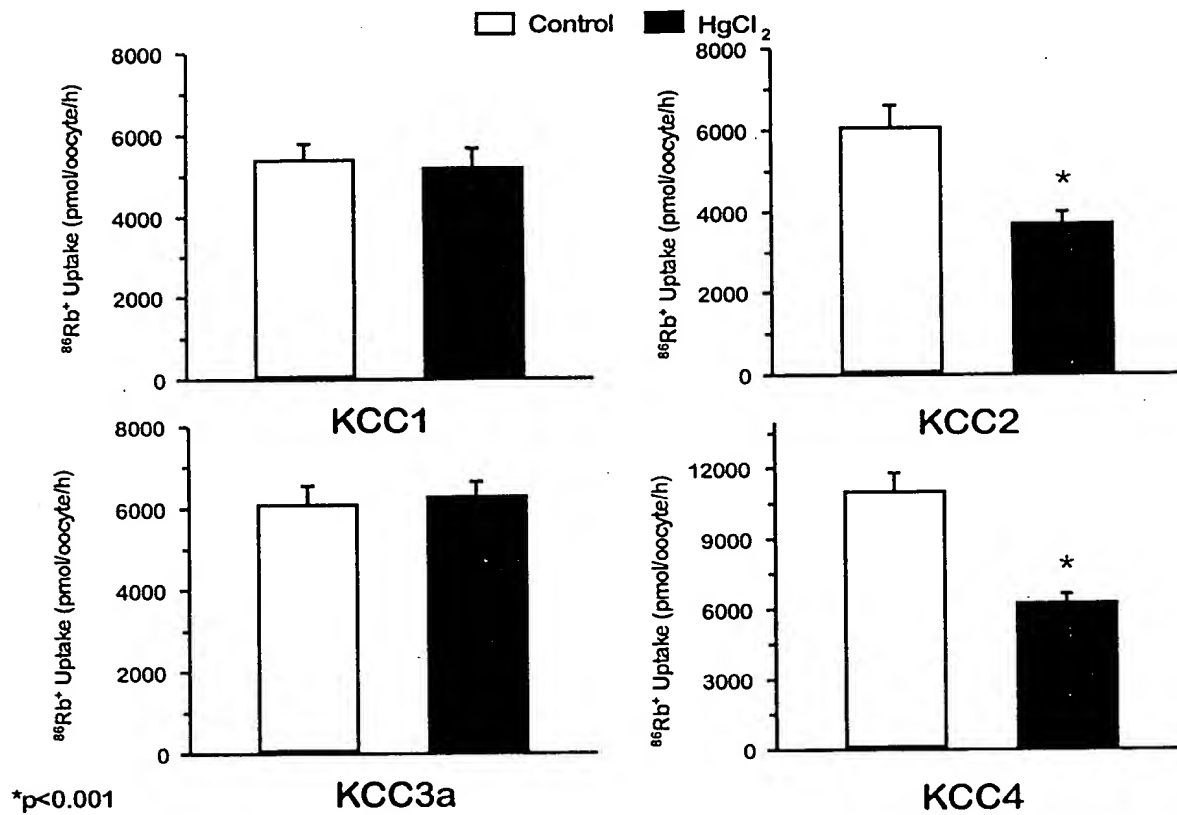


Figure 22

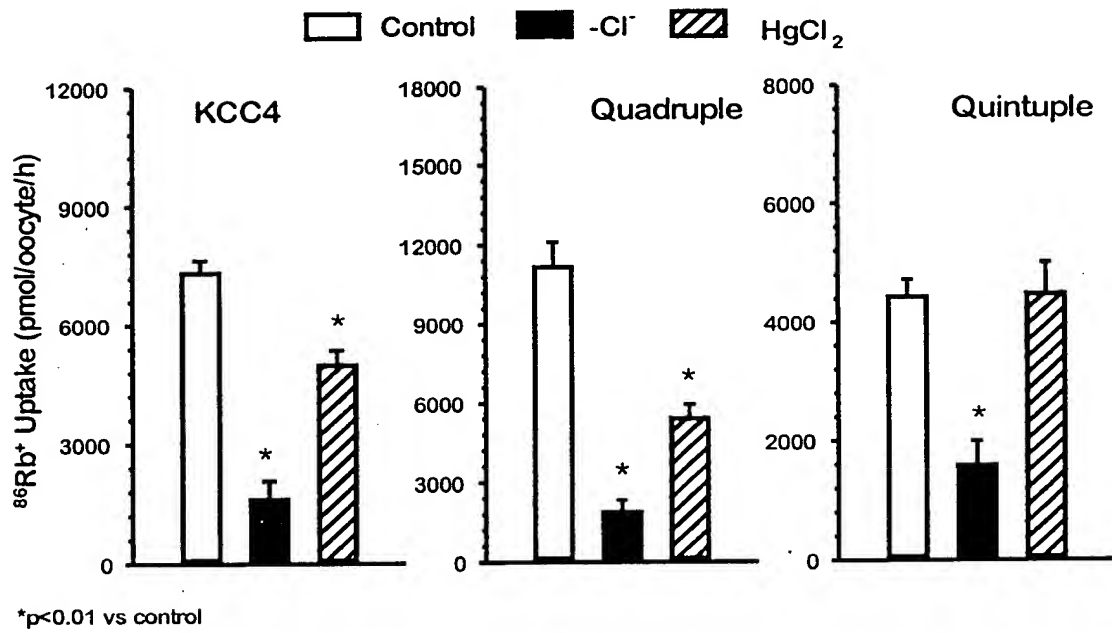


FIG. 22

FIG. 40

Figure 23

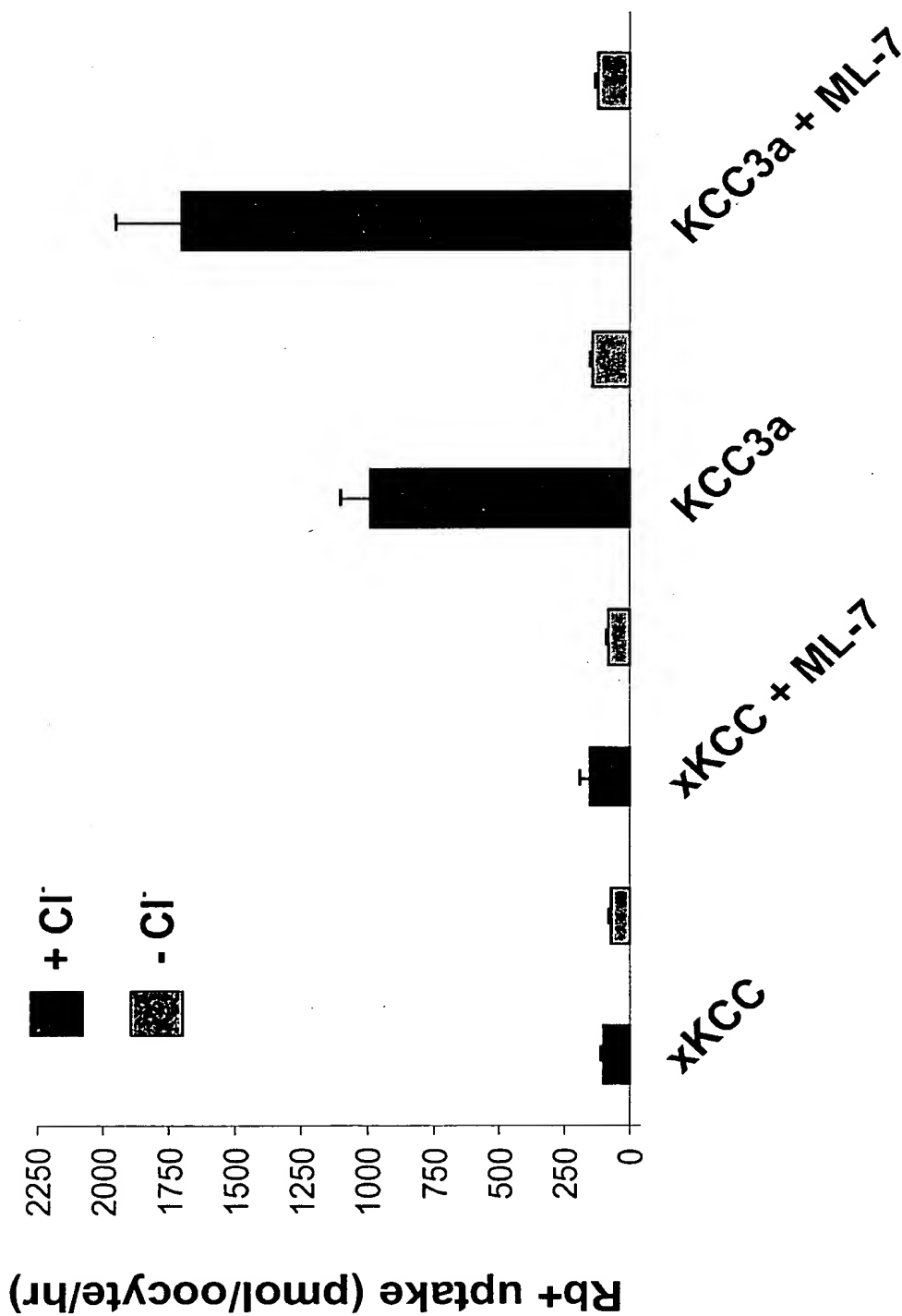
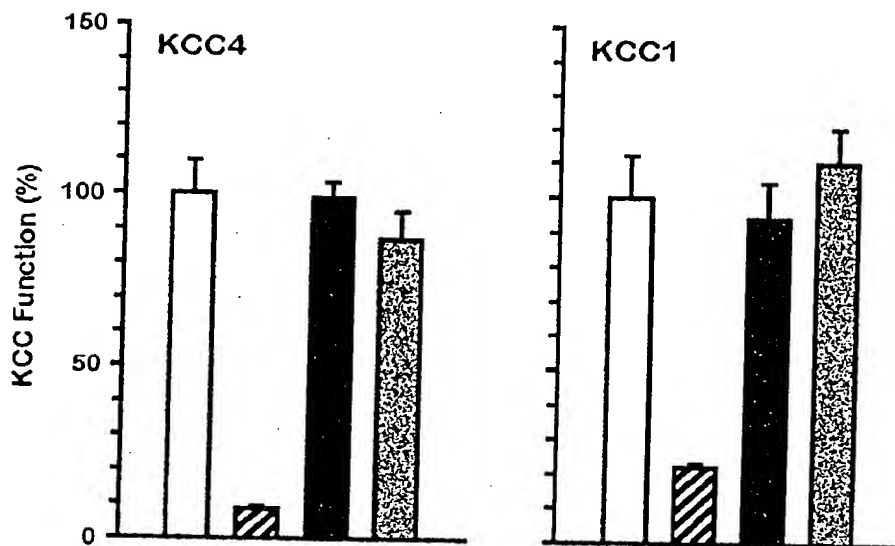


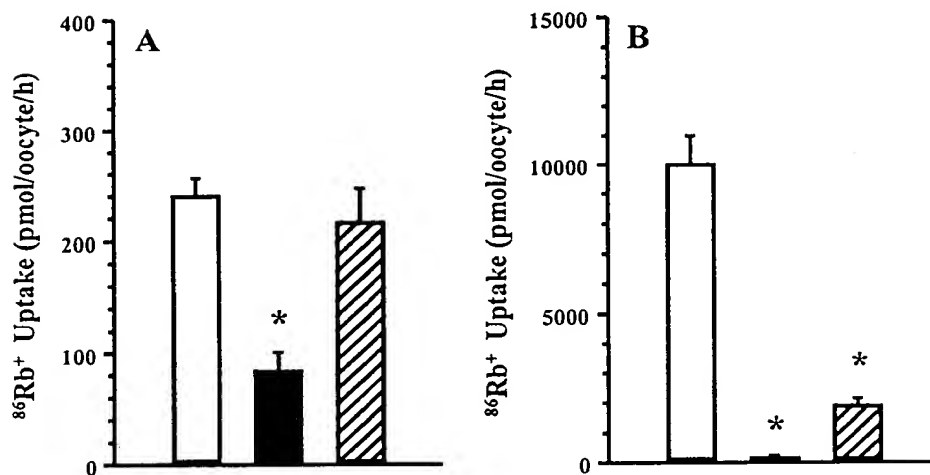


Figure 24



0983597.04-130-1  
FOI40 9765860

Figure 25



0935976.041601

Figure 26

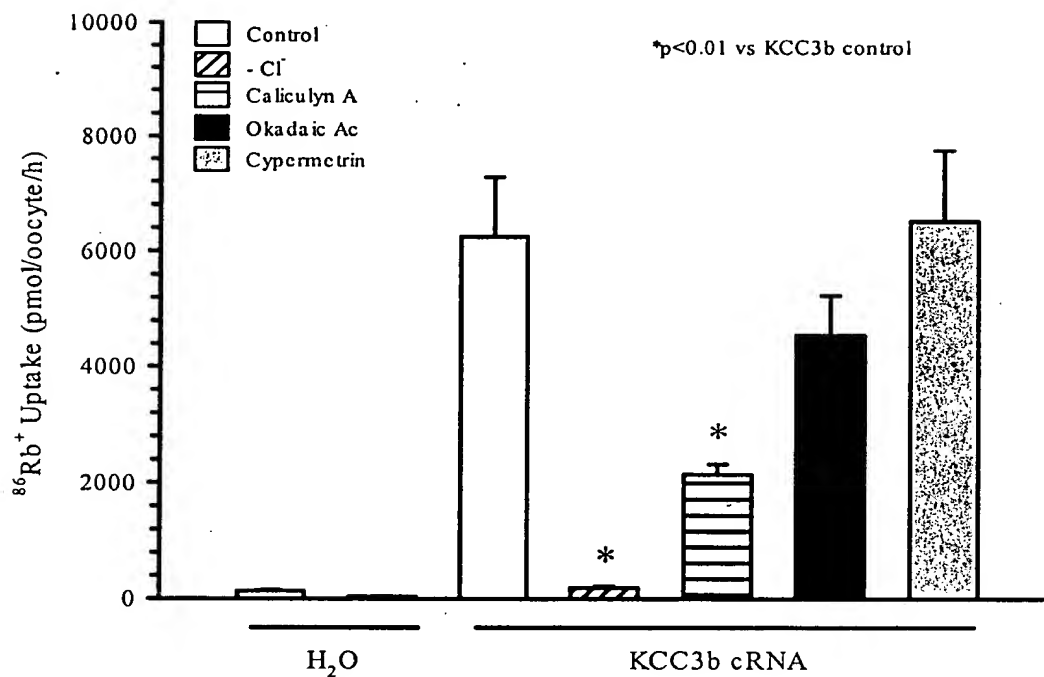
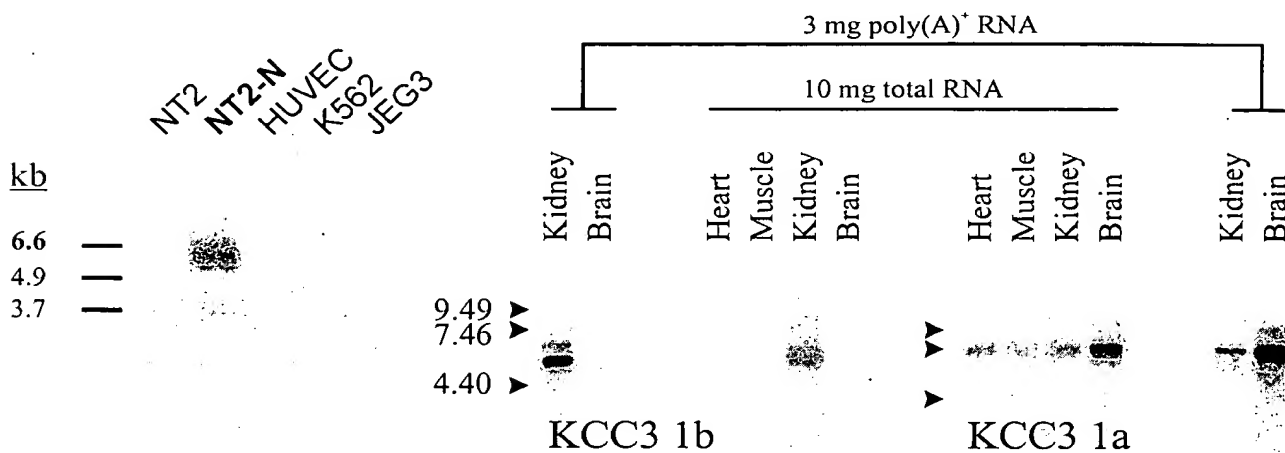


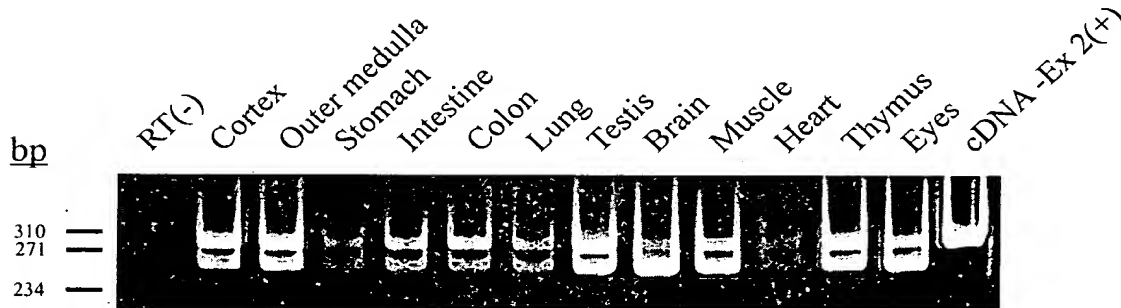
Figure 27

A) KCC2/NT2-N

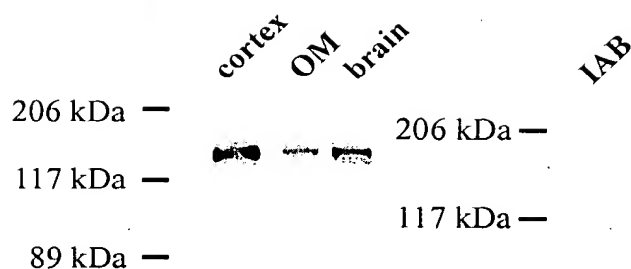
B) Mouse KCC3



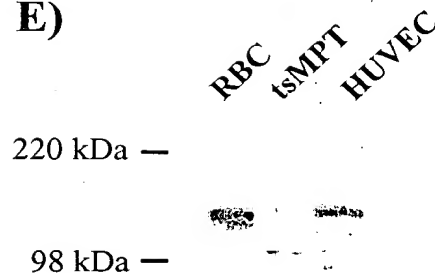
C)



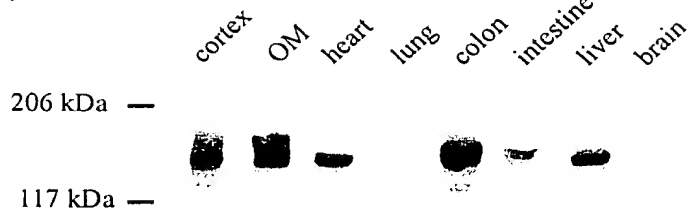
D)



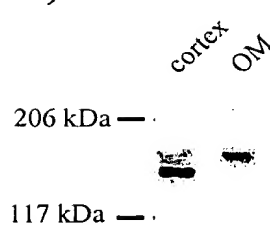
E)



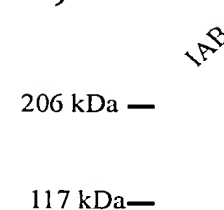
F)



G)



H)



FOOTHO 9255360

Figure 27 (cont.)

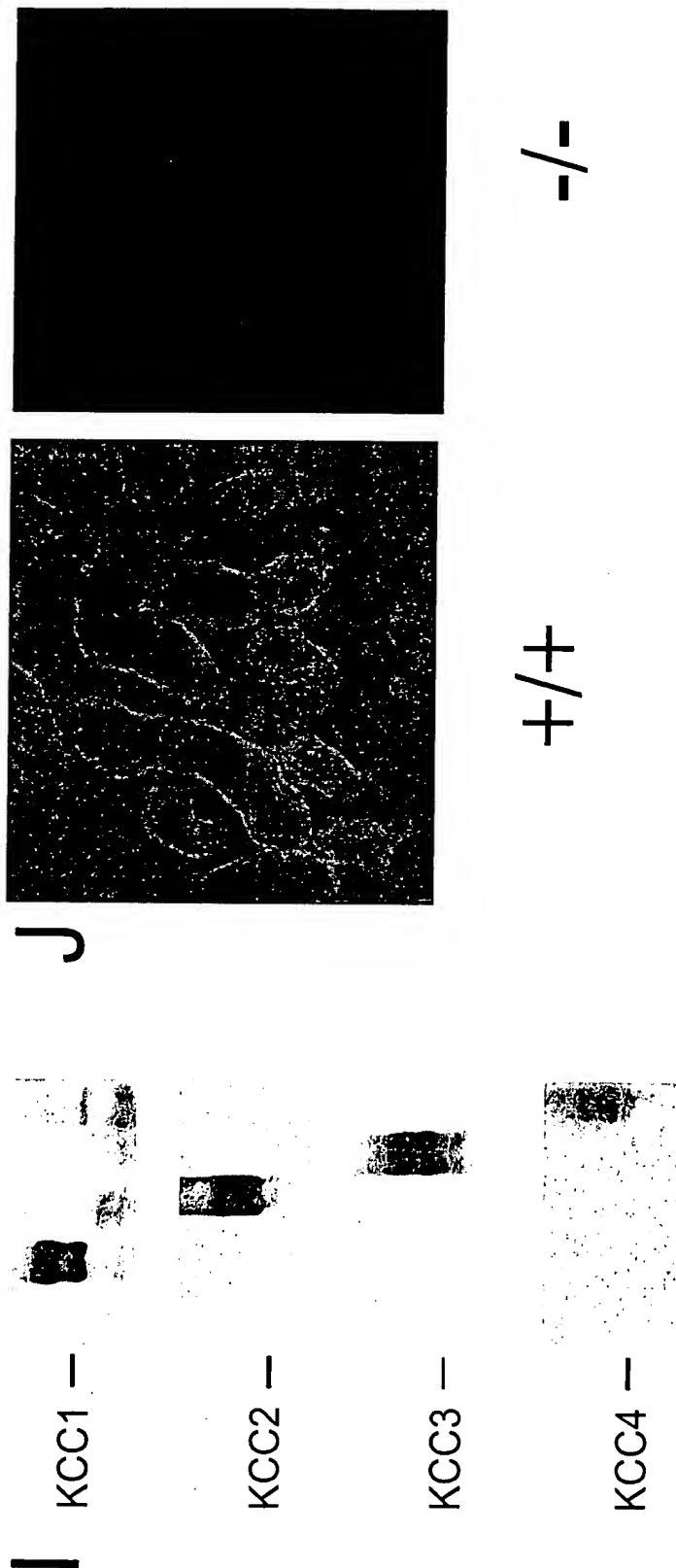
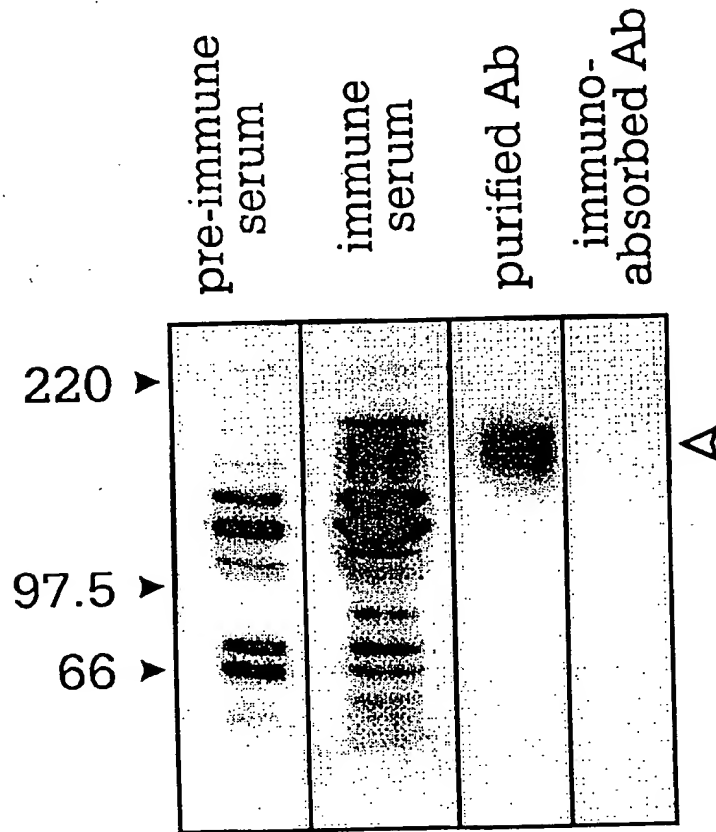


Figure 28



FOI40-9265860

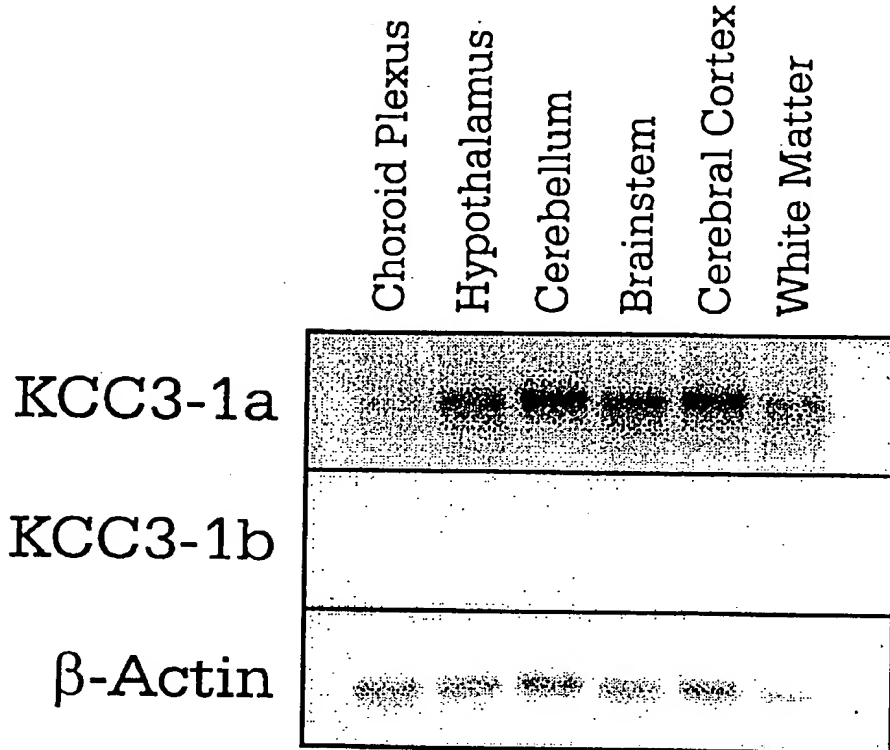
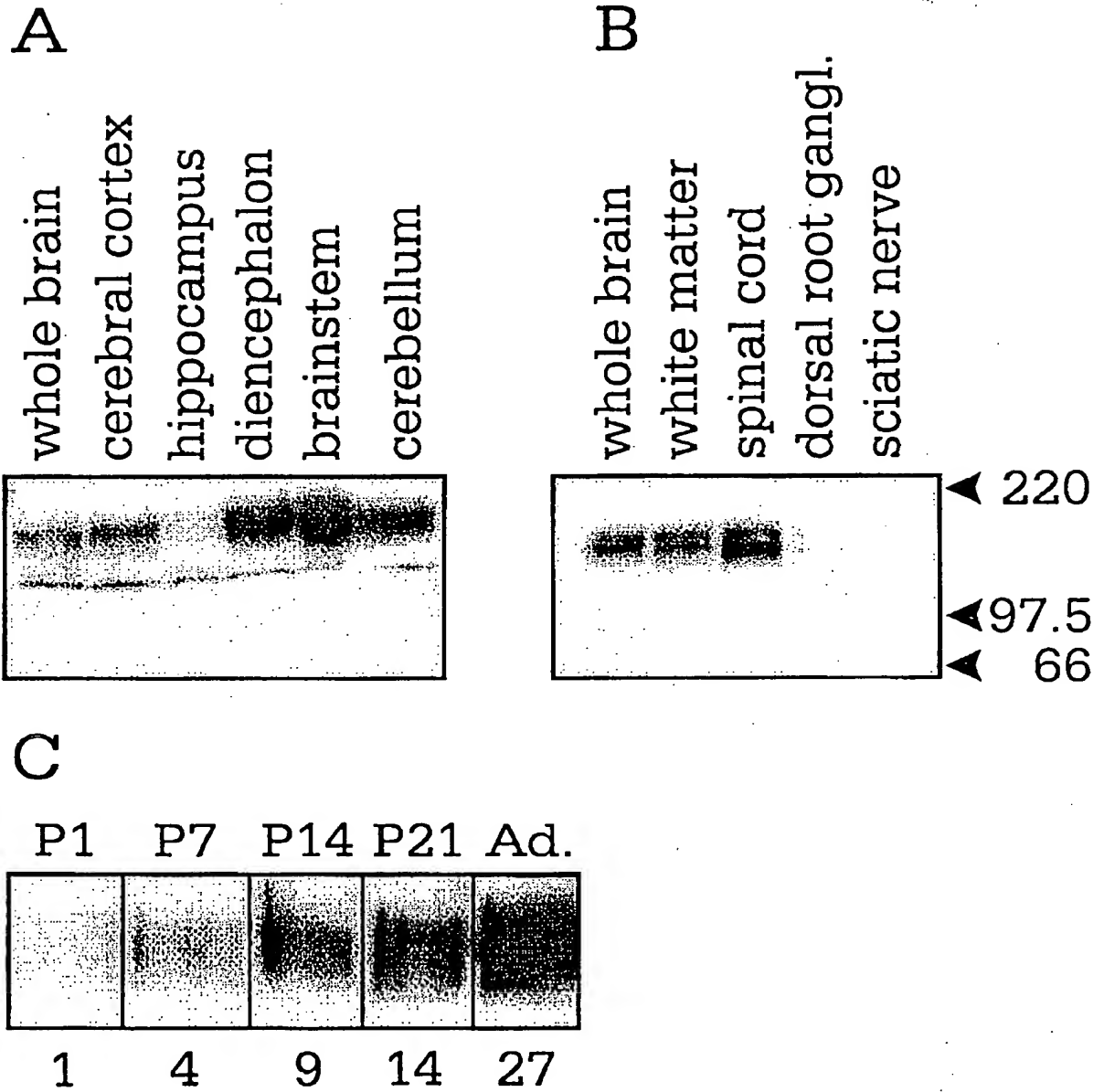


Figure 29

FOIA b 7 - DATED 03/26/2009







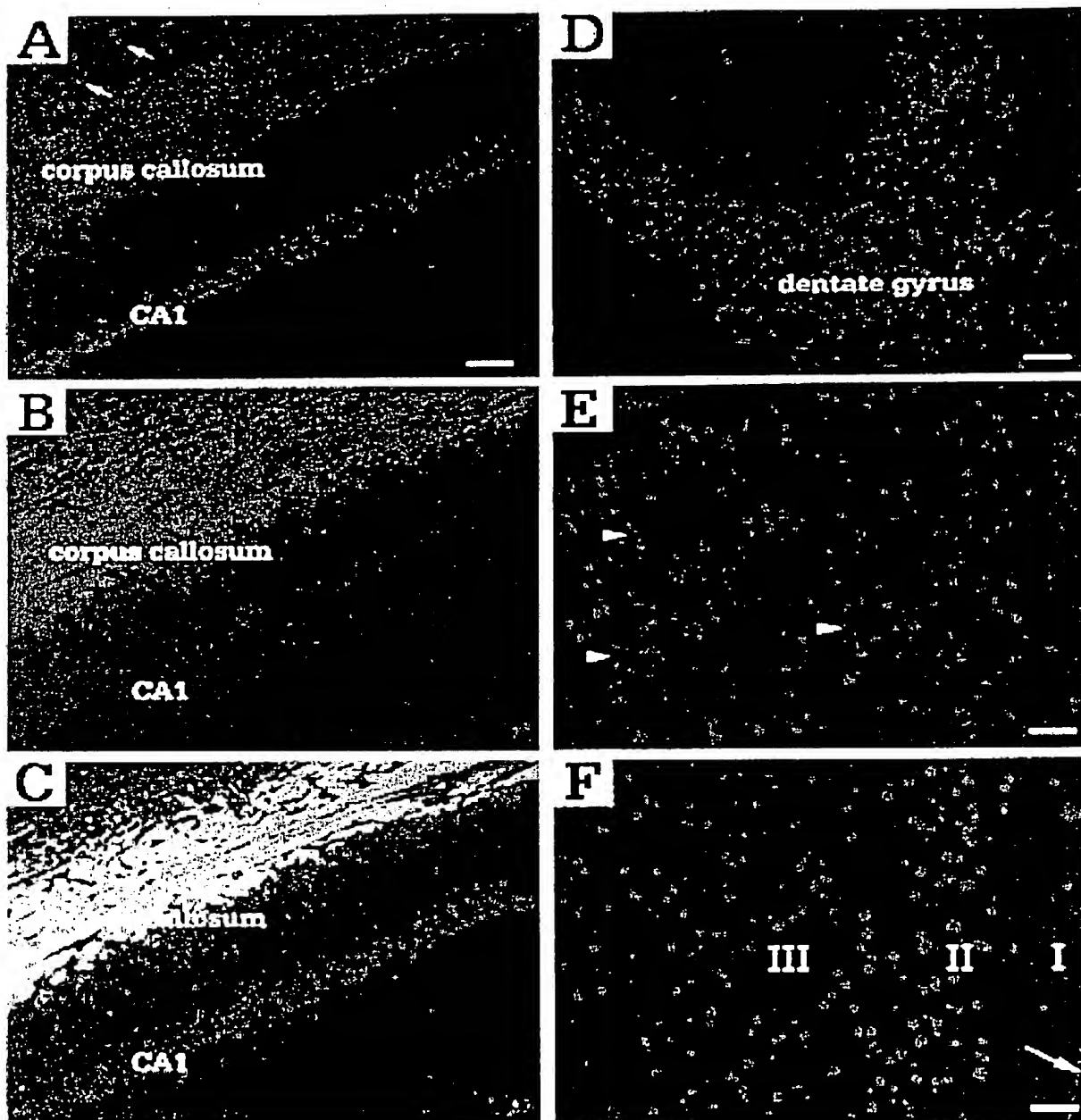
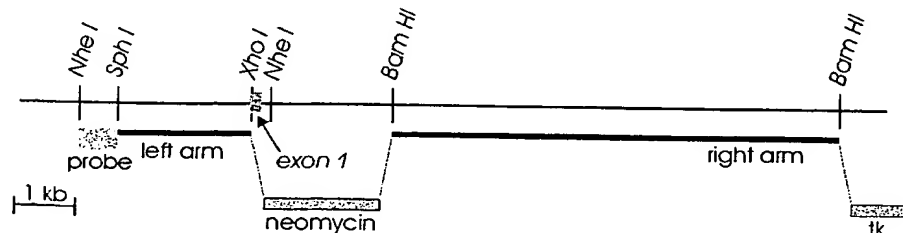


Figure 32

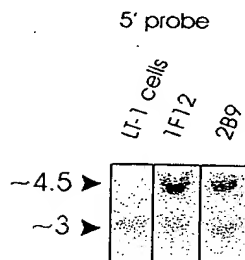
0985976-041E01  
T09T40-9265E860

Figure 33

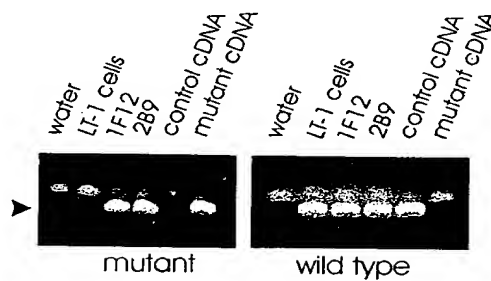
## A) Targeting strategy



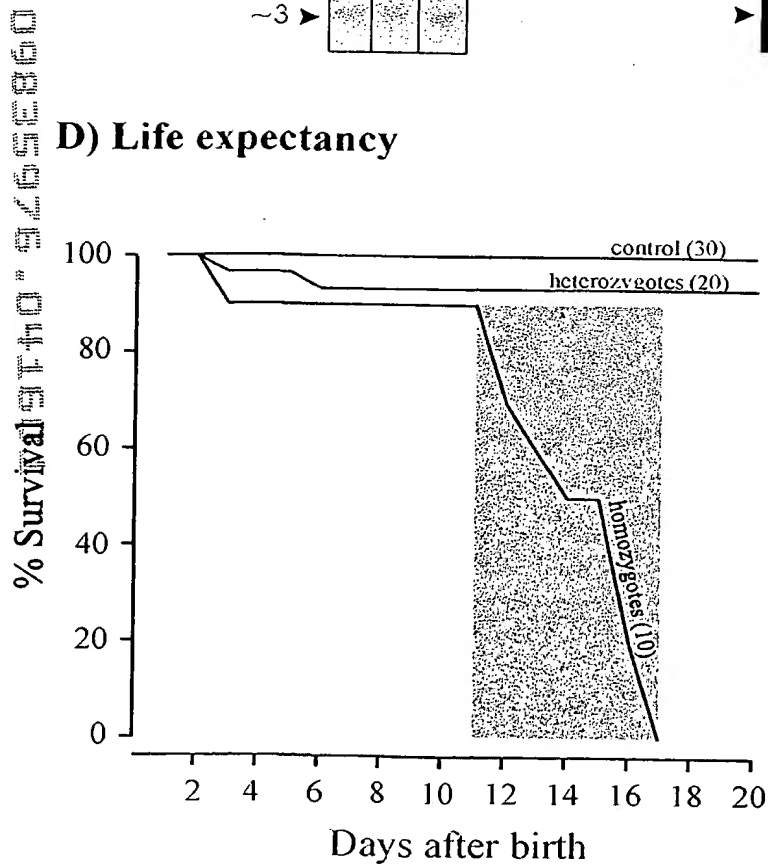
## B) Southern



## C) PCR



## D) Life expectancy



## E) Seizure disorder

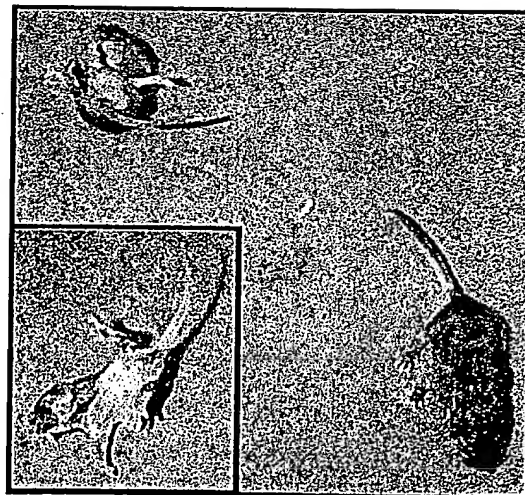


Figure 34

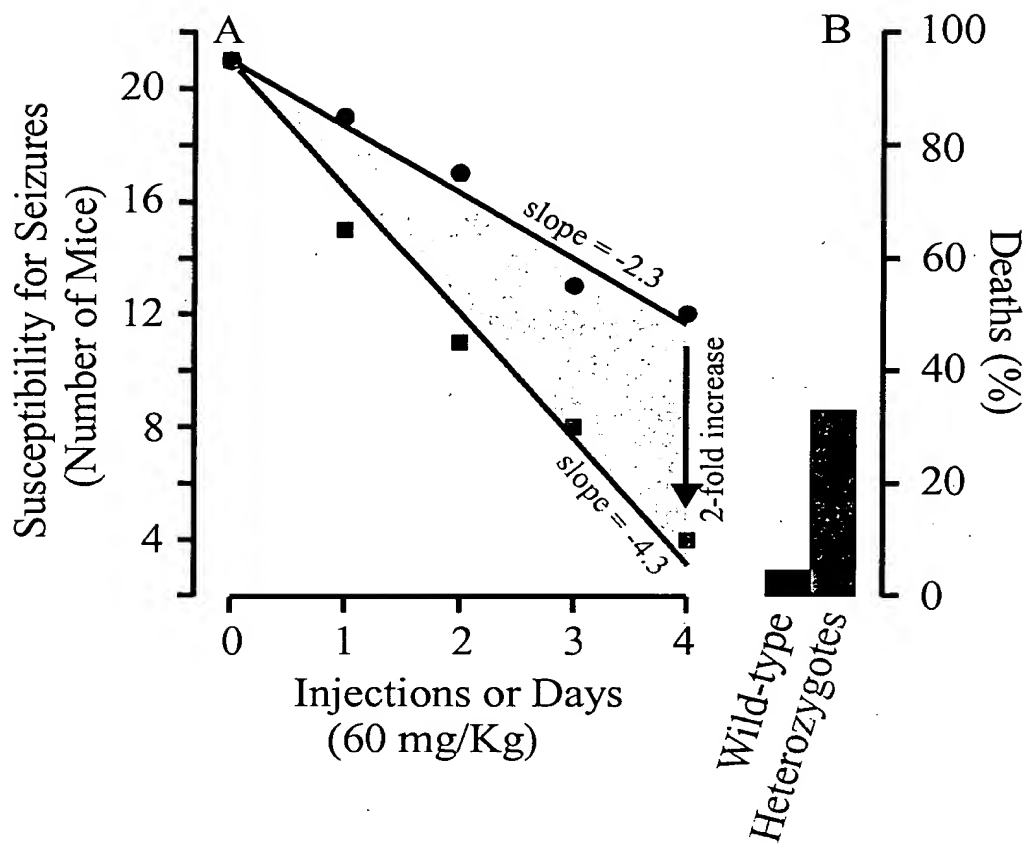


Figure 35

# KCC3 Construct

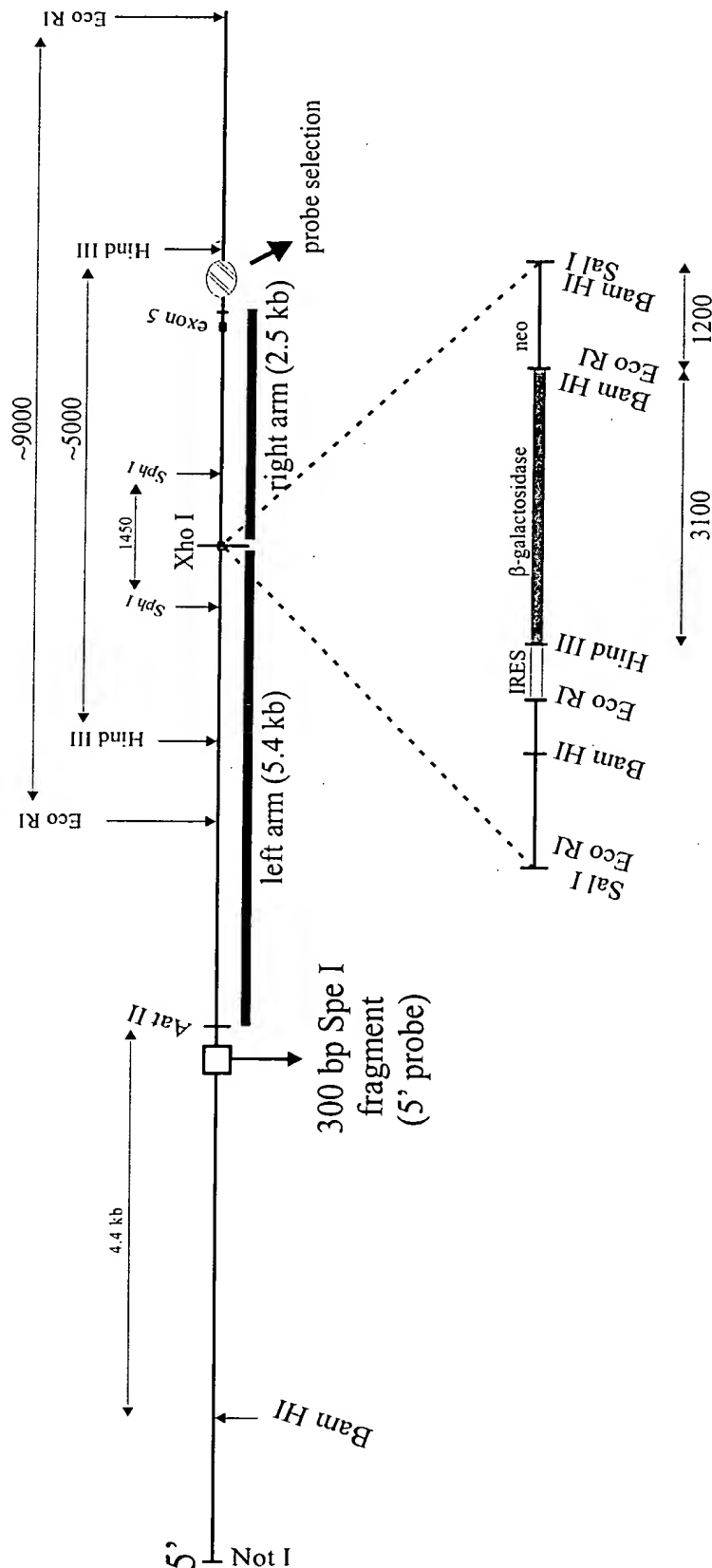


Figure 36

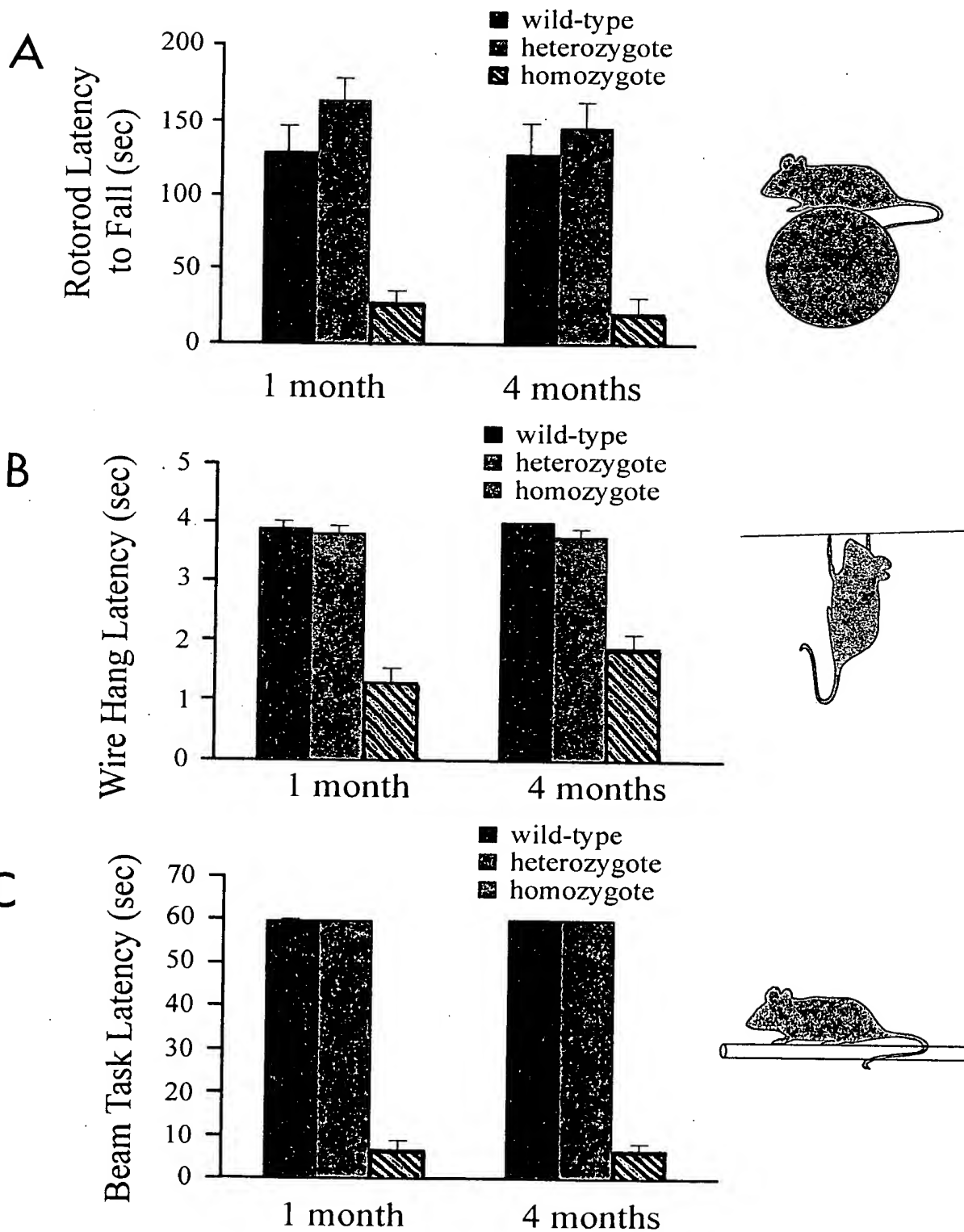


Figure 37

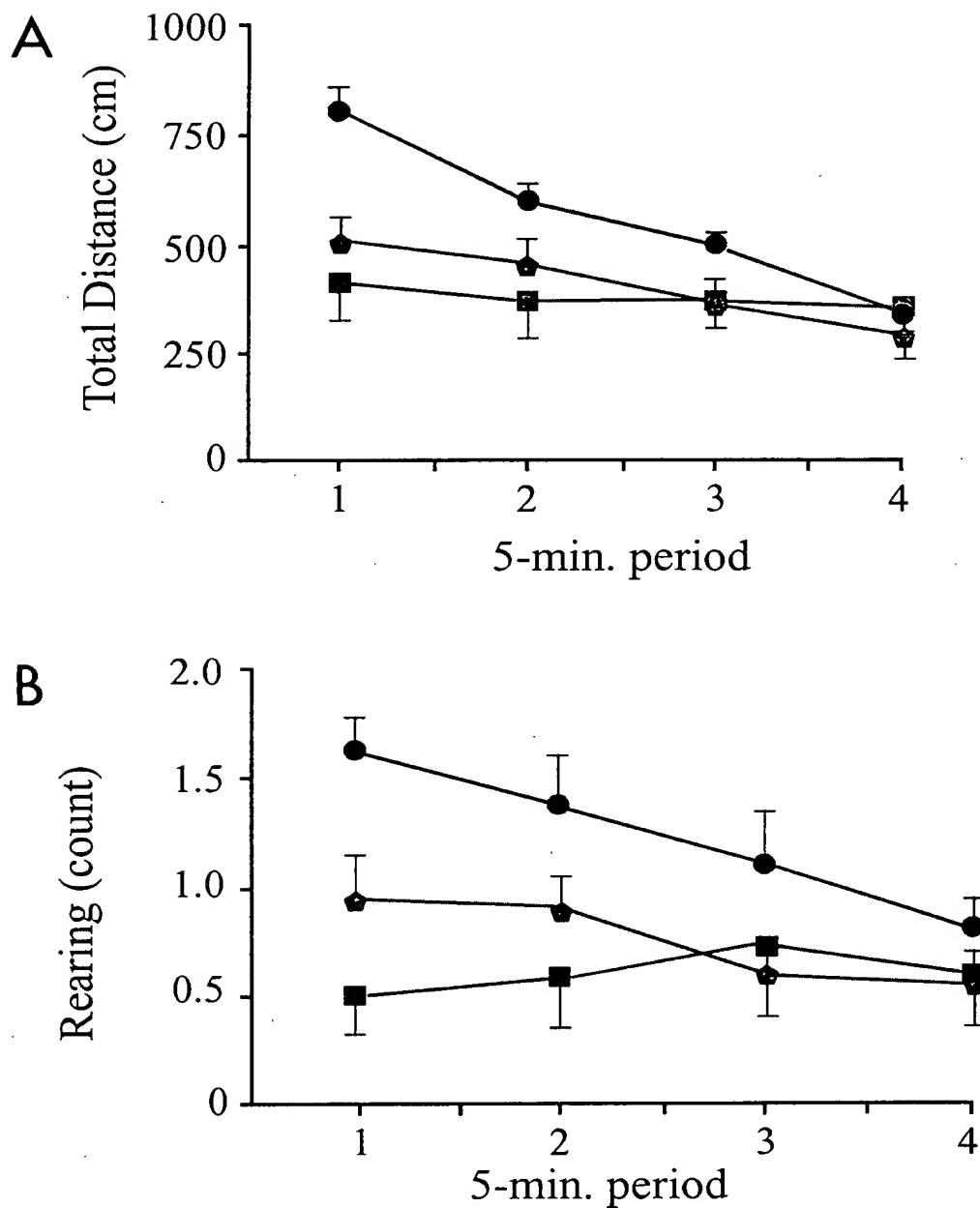
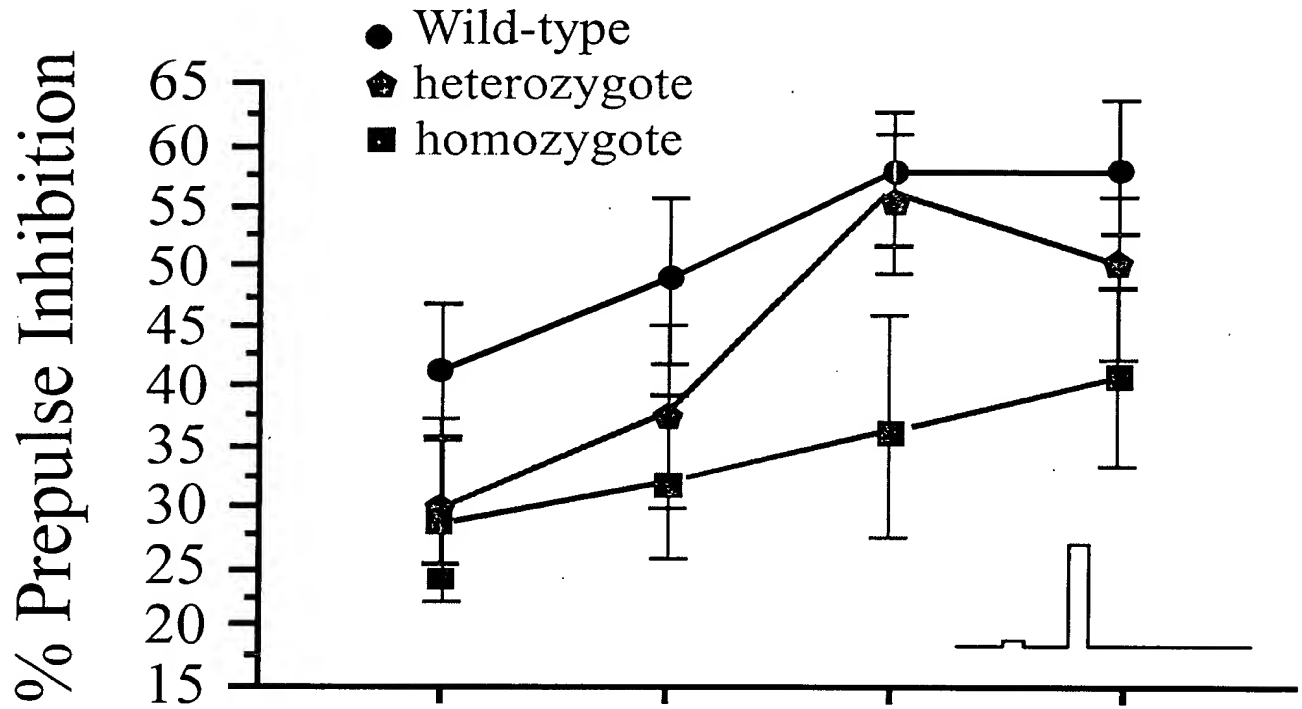


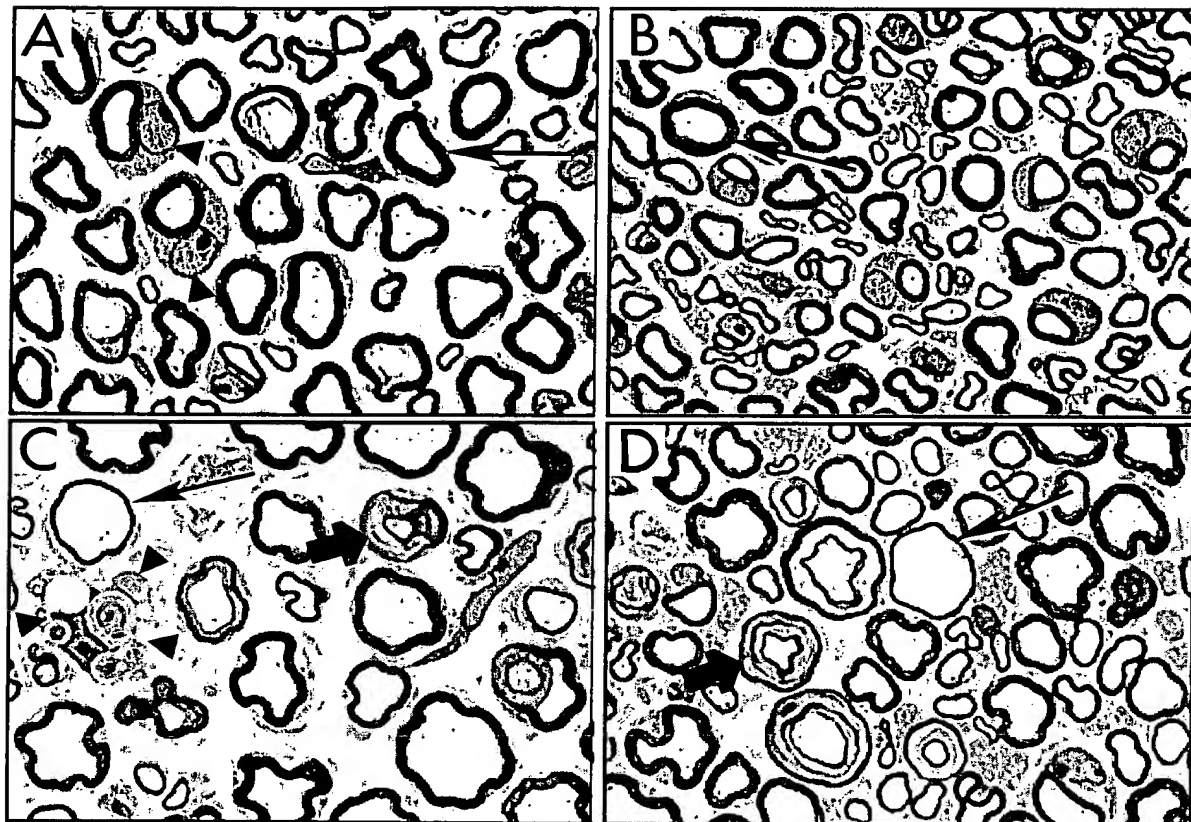
Figure 38



FOIA b 7 - D



Figure 39



FOI40-9453360

Figure 40

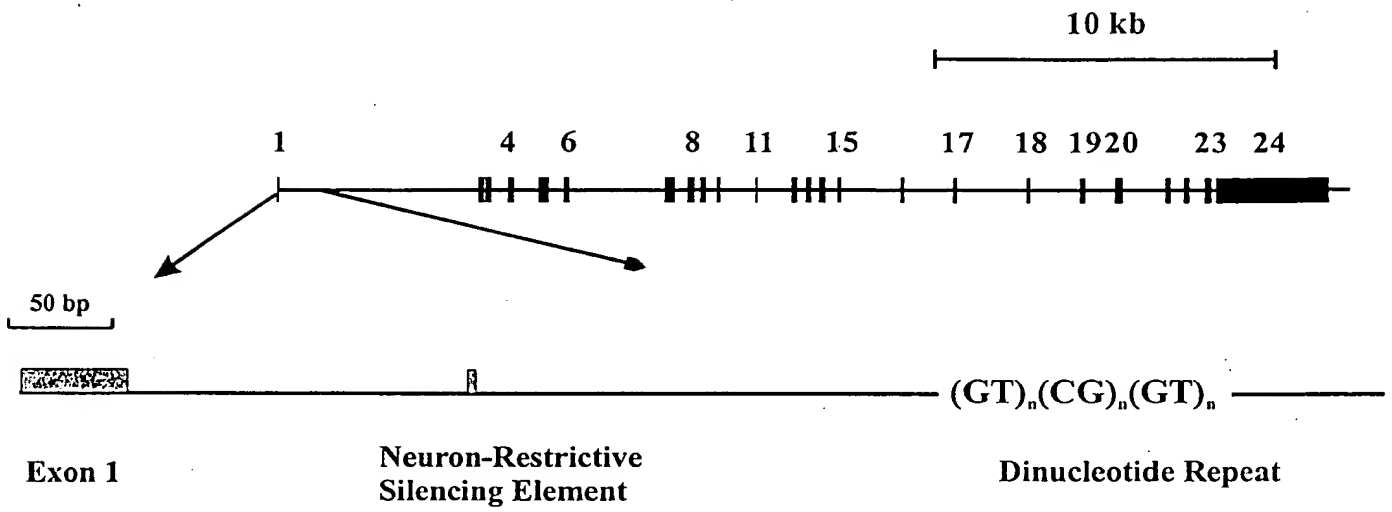


FIG. 40

**Sequence of the hKCC2 dinucleotide repeat in several individuals:**

**Sample 1:**

Allele A (GT)<sub>18</sub> (GC)<sub>7</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 84

Allele B (GT)<sub>16</sub> (GC)<sub>5</sub> (AT)<sub>1</sub> (GT)<sub>5</sub> (GC)<sub>1</sub> (GT)<sub>9</sub> / Total = 74

**Sample 2:**

Allele A (GT)<sub>18</sub> (GC)<sub>4</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>2</sub> (GT)<sub>11</sub> / Total = 82

**Sample 3:**

Allele A (GT)<sub>16</sub> (GC)<sub>6</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 78

Allele B (GT)<sub>14</sub> (GC)<sub>5</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 72

**Sample 4:**

Allele A (GT)<sub>19</sub> (GC)<sub>6</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>2</sub> (GT)<sub>10</sub> / Total = 86

Allele B (GT)<sub>17</sub> (GC)<sub>7</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>2</sub> (GT)<sub>10</sub> / Total = 84

**Sample 5:**

Allele A (GT)<sub>17</sub> (GC)<sub>6</sub> (AT)<sub>2</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>10</sub> / Total = 80

Allele B (GT)<sub>16</sub> (GC)<sub>6</sub> (AT)<sub>2</sub> (GT)<sub>3</sub> (GC)<sub>2</sub> (GT)<sub>10</sub> / Total = 78

**Sample 6:**

Allele A (GT)<sub>15</sub> (GC)<sub>6</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 76

Allele B (GT)<sub>16</sub> (GC)<sub>5</sub> (GT)<sub>1</sub> (AT)<sub>1</sub> (GT)<sub>4</sub> (GC)<sub>1</sub> (GT)<sub>11</sub> / Total = 78

**Sample 7:**

Allele A (GT)<sub>16</sub> (GC)<sub>4</sub> (GT)<sub>1</sub> (AT)<sub>1</sub> (GT)<sub>5</sub> (GC)<sub>1</sub> (GT)<sub>10</sub> / Total = 76

**Figure 41**

FOI40-9265860